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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/823,722	04/14/2004	Shingo Kawashima	6172.0001.US	4787	
7590 01/17/2007 McGuireWoods LLP Suite 180			EXAMINER		
			LEWIS, DAVID LEE		
1750 Tysons E McLean, VA 2			ART UNIT	PAPER NUMBER	
			2629		
			<u>.</u>		
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE		
3 MONTHS		01/17/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/823,722	KAWASHIMA ET AL.				
Office Action Summary	Examiner	Art Unit				
	David L. Lewis	2629				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	Lely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 14 Ap	oril 2004.					
	action is non-final.					
3) Since this application is in condition for allowar		secution as to the merits is				
closed in accordance with the practice under E	·					
Disposition of Claims						
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5</u> is/are rejected.						
7) Claim(s) <u>6-8</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	<b>1.</b>					
10)⊠ The drawing(s) filed on 14 April 2004 is/are: a)[	oxtimes accepted or b) $oxtimes$ objected to t	y the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
<ol> <li>Certified copies of the priority documents</li> </ol>	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
<ol><li>Copies of the certified copies of the prior</li></ol>	ity documents have been receive	d in this National Stage				
application from the International Bureau	, , , ,					
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachment(s)	,. <b></b>					
Notice of References Cited (PTO-892)   Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary ( Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal Pa					
Paper No(s)/Mail Date	6) Other:					

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

1. Claims 1-8 are rejected under 35 U.S.C. 102(a) as being anticipated by lketsu et al. (6369516).

As in claim 1, Iketsu et al. teaches of a method for driving an electroluminescence display panel having electro-luminescence cells and data electrode lines and scanning electrode lines intersecting each other at a predetermined distance, each of the electro-luminescence cells being formed at the intersections thereof, figures 2 and 7 items X, Y, and P.

comprising the step of: applying a booting current to each of the data electrode lines at the beginning of the next horizontal drive time period, **column 4 lines 15-40**, **column 6 lines 46-67** 

wherein the booting current: corresponds to a magnitude change of a display data signal in the next horizontal drive time period with respect to a display data signal in the current horizontal drive time period, column 4 lines 15-40, column 6 lines 46-67;

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has instantaneous values which are kept constant, figures 2 and 7 items 3i or 8i, figure 3,

and has an application time amount that for the booting current is proportional to a magnitude change of each display data signal in the next horizontal drive time period with respect to the display data signal in the current horizontal drive time period, figure 3 items S(I,j) and S(I, j+1), column 4 lines 55-67, column 7 lines 1-20.

As in claim 2, Iketsu et al. teaches of wherein the booting current is applied in a forward direction with respect to the EL cells when the magnitude of the display data signal in the next horizontal drive time period is larger than that of the display data signal in the current horizontal drive time period, the booting current is applied in a forward direction with respect to the EL cells, figure 2 and 7 item 3i (OFF) no discharge.

and wherein the booting current is applied in a reverse direction with respect to the EL cells, when the magnitude of the display data signal in the next horizontal drive time period is smaller than that of the display data signal in the current horizontal drive time period, figure 2 and 7 item 3i (ON) discharge/reverse.

As in claim 3, Iketsu et al. teaches of wherein no booting current is applied when the magnitudes of the display data signals in the current and next horizontal drive time periods are equal to each other, figure 2 and 7 item 3i (OFF) no discharge.

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As in claim 4, Iketsu et al. teaches of an apparatus for driving an electroluminescence display panel, figures 2 and 7

comprising: data electrode lines and scanning electrode lines intersecting each other at predetermined distances, figure 2 and 7 items X and Y;

and a plurality of electro-luminescence cells each of the plurality of electroluminescence cell being formed at the intersections thereof, **figure 2 and 7 item P** 

wherein: a booting current is applied to each of the data electrode lines at the beginning of the next horizontal drive time period, column 4 lines 15-40, column 6 lines 46-67;

the booting current corresponds to a magnitude change of a display data signal in the next horizontal drive time period with respect to a display data signal in the current horizontal drive time period, column 4 lines 15-40, column 6 lines 46-67;

instantaneous values of the booting currents are kept constant, figures 2 and 7 items 3i or 8i, figure 3;

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and the application time for the booting current is proportional to a magnitude change of each display data signal in the next horizontal drive time period with respect to the display data signal in the current horizontal drive time period, figure 3 items S(I,j) and S(I, j+1), column 4 lines 55-67, column 7 lines 1-20.

As in claim 5, Iketsu et al. teaches of a data driving unit connected to signal-input terminals of the data electrode lines for producing data current signals, corresponding to display data signals, in response to input switching control signals in order to apply the data current signals to the data electrode lines, respectively, figure 2 and 7 item 8

and applying the booting currents to the data electrode lines at the beginning of each horizontal drive time period, respectively, figure 2 and 7 item 8, column 4 lines 15-40, column 6 lines 46-67;

a scanning driving unit connected to signal-input terminals of the scanning electrode lines for sequentially applying scanning driving signals in response to input switching control signals to the scanning electrode lines, respectively, figure 2 and 7 item 5;

and a controller that inputs the display data signals and the switching control signals to the data driving unit and inputs the switching control signals to the scanning driving unit, respectively, figure 3 item control signals, column 4 lines 1-15.

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## Claim Objections

2. Claims 6-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art of record fails to teach of said claim limitations.

#### Conclusion

- 1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. 6847342, 7113156, 2002/0024481.
- 2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **David L. Lewis** whose telephone number is (571) 272-7673. The examiner can normally be reached on MT and THF from 8 to 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala, can be reached on (571) 272-7681. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571)-273-8300.
- Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pairdirect.uspto.gov. Should you have questions on access to the Private PAIR

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Examiner: David L. Lewis

January/7, 2007

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